Appendix 3.2-A
Terrestrial Biological Survey Results
El Segundo Generating Station Beach Delivery
El Segundo Generating Station Road Realignment
777 190th Street

El Segundo Generating Station Beach Delivery
El Segundo, CA
Survey Description
Survey Results
California Native Species Field Survey Forms

El Segundo Generating Station Beach Dune And Grassy Area Survey

The vegetation in the proposed beach delivery corridor, including the top of the rock groin, the beach dunes seaward of the bike path, the narrow dirt strip between the bike path and the generating station fence, and the fenced, grassy area on the generating station property, were surveyed on 7 November 2006. The beach survey extended from the groin to the point of the generating station's Units 1&2 intake/discharge conduits, which run under the beach (Map 1).

The vegetation survey was conducted by MBC senior biologist Carol Paquette between 1000 hr and 1200 hr. No vegetation was found on the top of the groin. On the beach, vegetation was very localized, with a strip along the top of the back beach dune and another strip between the bike path and the generating station fence. The vegetation was surveyed by walking along the bike path and along the shoreward side of the dune. At the north-northwest end of the back beach, where the dune was low, vegetation was mostly non-native and was sparse, due in part to foot traffic (Photo 1), but was more dense and primarily natural (native) where the dune was higher (Photo 2). Plant species on the beach dunes included the following, all of which are native except Hottentot fig:

beach bur, or beach silverweed (Photo 2)	*Ambrosia chamissonis*
beach evening primrose (Photo 3)	*Camissionia cheiranthifolia*
beach sand verbena (Photo 4)	*Abronia umbellata* ssp. *umbellata*
heliotrope	*Heliotropium curassavicum*
Hottentot fig, or ice plant (Photo 1)	*Carpobrotus edulis*

This assemblage of species is most similar to the Iceplant Series of Sawyer and Keeler-Wolf (1995), but lacks some species and has *Abronia umbellata* instead of *A. latifolia*.

Vegetation between the bike path and the fence was sparse at the north-northwest end and more dense at the south-southeast end of the study area (Photo 5). Most of the plants in this area were native species except Bermuda grass and flax-leaved horseweed, and include the following:

sea rocket	*Cakile maritima*
white nightshade	*Solanum americanum*
pitseed goosefoot	*Chenopodium berlandieri*
false daisy	*Eclipta prostrata*
Bermuda grass	*Cynodon dactylon*
flax-leaved horseweed	*Conyza bonariensis*

The grassy area between the fence and the generating station wall was approximately 138 m long and 22 m wide. The center of the area was Bermuda grass, and the perimeter vegetation consisted entirely of non-native, ornamental shrub, small trees, and fan palms (Photo 6). The following species were most abundant:

Hottentot fig, ice plant	*Carpobrotus edulis*
gazania	*Gazania* sp
Natal plum	*Carissa macrocarpa*
fan palm	*Washingtonia* sp
New Zealand flax	*Phormium tenax*
pittosporum	*Pittosporum* sp
carob tree	*Ceratonia siliqua*
giant bird-of-paradise	*Strelitzia nicolai*
fortnight lily	*Dietes iridioides*
fern asparagus	*Asparagus setaceus*
Veronica	*Hebe* sp

The only animals observed during the survey were lizards and birds. Several unidentified lizards were seen among the vegetation in the dunes. On the lower beach, in the intertidal zone, several

shorebirds were seen, including eight sanderlings (*Calidris alba*), two willets (*Tringa semipalmata*), and three marbled godwits (*Limosa fedoa*). A western gull (*Larus occidentalis*) was observed on the groin.

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CNNDD see California Natural Diversity Database.

CNPS see California Native Plant Society

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Map 1. Overview of beach dune and grassy park survey area. El Segundo, CA.

Beach Dune And Grassy Area Survey. 7 November 2006.
El Segundo Generating Station.

Photo 1. Iceplant (C. *edulis*) along bike path.

Photo 2. Beach bur, or beach silverweed (*Ambrosia chamissonis*).

Photo 3. Beach evening primrose (*Camissionia cheiranthifolia*).

Photo 4. Beach sand verbena (*Abronia umbellata* ssp. *umbellata*).

Photo 5. Overview of bike path and fence.

Photo 6. Fenced landscaped grassy area.

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Scientific Name: *Abronia umbellata spp. umbellata*

Common Name: beach sand verbena

Species Found? ☑ Yes ☐ No _____ If not, why?

Total No. Individuals 10 Subsequent Visit? ☐ yes ☑ no

Is this an existing NDDB occurrence? _____ Yes, Occ. # ☐ no ☐ unk.

Collection? If yes: _____ Number _____ Museum / Herbarium

Reporter: Carol Paquette

Address: 3000 Redhill ave
Costa Mesa, CA 92626

E-mail Address: cpaquette@mbcnet.net

Phone: (714) 850-4830

Plant Information

Phenology: _____% vegetative _____% flowering _____% fruiting

Animal Information

_____ # adults _____ # juveniles _____ # larvae _____ # egg masses _____ # unknown

☐ breeding ☐ wintering ☐ burrow site ☐ rookery ☐ nesting ☐ other

Location Description ***(please attach map AND/OR fill out your choice of coordinates, below)***

County: Los Angeles Landowner / Mgr.: _____

Quad Name: Venice Elevation: 12 ft

T____ R____ Sec ____, ____ ¼ of _____¼, Meridian: H☐ M☐ S☐ Source of Coordinates (GPS, topo. map & type): Google Eart

T____ R____ Sec ____, ____ ¼ of _____¼, Meridian: H☐ M☐ S☐ GPS Make & Model _____

DATUM: **NAD27** ☐ **NAD83** ☐ **WGS84** ☐ Horizontal Accuracy _____ meters/feet

Coordinate System: UTM Zone 10 ☐ UTM Zone 11 ☐ ***OR*** Geographic (Latitude & Longitude) ☐

Coordinates: Easting/Longitude 118° 25' 33.48" Northing/Latitude 33° 54' 39.20"

Habitat Description *(plant communities, dominants, associates, substrates/soils, aspects/slope):*

beach dune (iceplant series)
with Camissonia cheiranthifolia, Ambronia umbellata spp. umbellata, Heliotropium curassavicum, and Carpobrotus edulis

Other rare taxa seen at THIS site on THIS date:
(separate form preferred)

Site Information Overall site/occurrence quality/viability (site + population): ☐ Excellent ☐ Good ☑ Fair ☐ Poor

Immediate AND surrounding land use:

Visible disturbances:

Threats:

Comments:

Determination: *(check one or more, and fill in blanks)*

- ☐ Keyed (cite reference): _____
- ☐ Compared with specimen housed at: _____
- ☐ Compared with photo / drawing in: _____
- ☐ By another person (name): _____
- ☐ Other: _____

Photographs: *(check one or more)*

	Slide	Print	Digital
Plant / animal	☐	☐	☐
Habitat	☐	☑	☐
Diagnostic feature	☐	☐	☐

May we obtain duplicates at our expense? yes ☐ no ☐

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Scientific Name: *Ambrosia chamissonis*

Common Name: beach bur, silver beachweed, beach bursage

Species Found? ☑ Yes ☐ No _____ If not, why?

Total No. Individuals 20 Subsequent Visit? ☐ yes ☑ no

Is this an existing NDDB occurrence? _____ Yes, Occ. # ☐ no ☐ unk.

Collection? If yes: _____ Number MBC herbarium Museum / Herbarium

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Phone: (714) 850-4830

Plant Information

Phenology: _____% vegetative 100 % flowering _____% fruiting

Animal Information

_____ # adults _____ # juveniles _____ # larvae _____ # egg masses _____ # unknown

☐ breeding ☐ wintering ☐ burrow site ☐ rookery ☐ nesting ☐ other

Location Description ***(please attach map AND/OR fill out your choice of coordinates, below)***

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T____ R____ Sec ____, ____ ¼ of _____¼, Meridian: H☐ M☐ S☐ GPS Make & Model _____
DATUM: NAD27 ☐ NAD83 ☐ WGS84 ☐ Horizontal Accuracy _____ meters/feet
Coordinate System: UTM Zone 10 ☐ UTM Zone 11 ☐ ***OR*** Geographic (Latitude & Longitude) ☐
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(separate form preferred)

Site Information Overall site/occurrence quality/viability (site + population): ☐ Excellent ☐ Good ☑ Fair ☐ Poor

Immediate AND surrounding land use:

Visible disturbances:

Threats:

Comments:

Determination: *(check one or more, and fill in blanks)*

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☐ Other: _____

Photographs: *(check one or more)*

	Slide	Print	Digital
Plant / animal	☐	☑	☐
Habitat	☐	☑	☐
Diagnostic feature	☐	☐	☐

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Scientific Name: *Cakile maritima*

Common Name: sea rocket

Species Found? ☑ Yes ☐ No _____ If not, why?

Total No. Individuals 20 Subsequent Visit? ☐ yes ☑ no

Is this an existing NDDB occurrence? _____ Yes, Occ. # ☐ no ☐ unk.

Collection? If yes: _____ Number MBC museum Museum / Herbarium

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Phone: (714) 850-4830

Plant Information

Phenology: _____% vegetative 100 % flowering 100 % fruiting

Animal Information

_____ # adults _____ # juveniles _____ # larvae _____ # egg masses _____ # unknown

☐ breeding ☐ wintering ☐ burrow site ☐ rookery ☐ nesting ☐ other

Location Description ***(please attach map AND/OR fill out your choice of coordinates, below)***

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Quad Name: Venice Elevation: 12 ft
T____ R____ Sec ____, ____ ¼ of _____¼, Meridian: H☐ M☐ S☐ Source of Coordinates (GPS, topo. map & type): Google Eart
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Habitat Description *(plant communities, dominants, associates, substrates/soils, aspects/slope):*
adjacent to beach dune

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(separate form preferred)

Site Information Overall site/occurrence quality/viability (site + population): ☐ Excellent ☐ Good ☐ Fair ☑ Poor
Immediate AND surrounding land use:
Visible disturbances:
Threats:
Comments:

Determination: *(check one or more, and fill in blanks)*
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☐ Other: _____

Photographs: *(check one or more)*

	Slide	Print	Digital
Plant / animal	☐	☐	☐
Habitat	☐	☑	☐
Diagnostic feature	☐	☐	☐

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Scientific Name: *Camissonia cheiranthifolia*

Common Name: beach evening primrose

Species Found? ☑ Yes ☐ No _____ If not, why?

Total No. Individuals 20 Subsequent Visit? ☐ yes ☑ no

Is this an existing NDDB occurrence? _____ Yes, Occ. # ☐ no ☐ unk.

Collection? If yes: _____ Number MBC herbarium Museum / Herbarium

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Phone: (714) 850-4830

Plant Information

Phenology: _____% vegetative 100 % flowering _____% fruiting

Animal Information

_____ # adults _____ # juveniles _____ # larvae _____ # egg masses _____ # unknown

☐ breeding ☐ wintering ☐ burrow site ☐ rookery ☐ nesting ☐ other

Location Description ***(please attach map AND/OR fill out your choice of coordinates, below)***

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Other rare taxa seen at THIS site on THIS date:
(separate form preferred)

Site Information Overall site/occurrence quality/viability (site + population): ☐ Excellent ☐ Good ☑ Fair ☐ Poor

Immediate AND surrounding land use:

Visible disturbances:

Threats:

Comments:

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- ☐ Other: _____

Photographs: *(check one or more)*

	Slide	Print	Digital
Plant / animal	☐	☑	☐
Habitat	☐	☑	☐
Diagnostic feature	☐	☐	☐

May we obtain duplicates at our expense? yes ☐ no ☐

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Scientific Name: *Chenopodium berlandieri*

Common Name: pitseed goosefoot

Species Found? ☑ Yes ☐ No _____ If not, why?

Total No. Individuals 2 Subsequent Visit? ☐ yes ☑ no

Is this an existing NDDB occurrence? _____ Yes, Occ. # ☐ no ☐ unk.

Collection? If yes: _____ Number MBC herbarium Museum / Herbarium

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Phone: (714) 850-4830

Plant Information

Phenology: _____% vegetative 100 % flowering 100 % fruiting

Animal Information

_____ # adults _____ # juveniles _____ # larvae _____ # egg masses _____ # unknown

☐ breeding ☐ wintering ☐ burrow site ☐ rookery ☐ nesting ☐ other

Location Description ***(please attach map AND/OR fill out your choice of coordinates, below)***

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Habitat Description *(plant communities, dominants, associates, substrates/soils, aspects/slope):*
adjacent to beach dune

Other rare taxa seen at THIS site on THIS date:
(separate form preferred)

Site Information Overall site/occurrence quality/viability (site + population): ☐ Excellent ☐ Good ☐ Fair ☑ Poor
Immediate AND surrounding land use:
Visible disturbances:
Threats:
Comments:

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☐ Compared with specimen housed at: _____
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Photographs: *(check one or more)*

	Slide	Print	Digital
Plant / animal	☐	☐	☐
Habitat	☐	☑	☐
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California Native Species Field Survey Form

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Scientific Name: *Eclipta prostrata*

Common Name: false daisy

Species Found? ☑ Yes ☐ No _____ If not, why?

Total No. Individuals 1 Subsequent Visit? ☐ yes ☑ no

Is this an existing NDDB occurrence? _____ Yes, Occ. # ☐ no ☐ unk.

Collection? If yes: _____ Number MBC herbarium Museum / Herbarium

Reporter: Carol Paquette
Address: 3000 Redhill ave
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Phone: (714) 850-4830

Plant Information

Phenology: _____% vegetative 100 % flowering 100 % fruiting

Animal Information

_____ # adults _____ # juveniles _____ # larvae _____ # egg masses _____ # unknown

☐ breeding ☐ wintering ☐ burrow site ☐ rookery ☐ nesting ☐ other

Location Description ***(please attach map AND/OR fill out your choice of coordinates, below)***

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☐ Other: _____

Photographs: *(check one or more)*

	Slide	Print	Digital
Plant / animal	☐	☐	☐
Habitat	☐	☑	☐
Diagnostic feature	☐	☐	☐

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Scientific Name: *Heliotropium curassavicum*

Common Name: heliotrope

Species Found? ☑ Yes ☐ No _____ If not, why?

Total No. Individuals 20 Subsequent Visit? ☐ yes ☑ no

Is this an existing NDDB occurrence? _____ Yes, Occ. # ☐ no ☐ unk.

Collection? If yes: _____ Number MBC herbarium Museum / Herbarium

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Plant Information

Phenology: _____% vegetative 100 % flowering _____% fruiting

Animal Information

_____ # adults _____ # juveniles _____ # larvae _____ # egg masses _____ # unknown

☐ breeding ☐ wintering ☐ burrow site ☐ rookery ☐ nesting ☐ other

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(separate form preferred)

Site Information Overall site/occurrence quality/viability (site + population): ☐ Excellent ☐ Good ☑ Fair ☐ Poor

Immediate AND surrounding land use:

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Photographs: *(check one or more)*

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Plant / animal	☐	☐	☐
Habitat	☐	☑	☐
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Send Form

Scientific Name: *Solanum americanum*

Common Name: White nightshade

Species Found? ☑ Yes ☐ No _____ If not, why?

Total No. Individuals 1 Subsequent Visit? ☐ yes ☑ no

Is this an existing NDDB occurrence? _____ ☐ no ☐ unk.
Yes, Occ. #

Collection? If yes: _____ Number _____ Museum / Herbarium

Reporter: Carol Paquette
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Costa Mesa, CA 92626
E-mail Address: cpaquette@mbcnet.net
Phone: (714) 850-4830

Plant Information

Phenology: _____% vegetative 100 % flowering _____% fruiting

Animal Information

_____ # adults _____ # juveniles _____ # larvae _____ # egg masses _____ # unknown

☐ breeding ☐ wintering ☐ burrow site ☐ rookery ☐ nesting ☐ other

Location Description ***(please attach map AND/OR fill out your choice of coordinates, below)***

County: Los Angeles Landowner / Mgr.: _____
Quad Name: Venice Elevation: 12 ft
T____ R____ Sec ____, ____ ¼ of _____¼, Meridian: H☐ M☐ S☐ Source of Coordinates (GPS, topo. map & type): Google Eart
T____ R____ Sec ____, ____ ¼ of _____¼, Meridian: H☐ M☐ S☐ GPS Make & Model _____
DATUM: **NAD27** ☐ **NAD83** ☐ **WGS84** ☐ Horizontal Accuracy _____ meters/feet
Coordinate System: UTM Zone 10 ☐ UTM Zone 11 ☐ ***OR*** Geographic (Latitude & Longitude) ☐
Coordinates: Easting/Longitude 118° 25' 33.48" Northing/Latitude 33° 54' 39.20"

Habitat Description *(plant communities, dominants, associates, substrates/soils, aspects/slope):*
adjacent to beach dune

Other rare taxa seen at THIS site on THIS date:
(separate form preferred)

Site Information Overall site/occurrence quality/viability (site + population): ☐ Excellent ☐ Good ☐ Fair ☑ Poor
Immediate AND surrounding land use:
Visible disturbances:
Threats:
Comments:

Determination: *(check one or more, and fill in blanks)*
☐ Keyed (cite reference): _____
☐ Compared with specimen housed at: _____
☐ Compared with photo / drawing in: _____
☐ By another person (name): _____
☐ Other: _____

Photographs: *(check one or more)*

	Slide	Print	Digital
Plant / animal	☐	☐	☐
Habitat	☐	☑	☐
Diagnostic feature	☐	☐	☐

May we obtain duplicates at our expense? yes ☐ no ☐

El Segundo Generating Station Road Realignment
El Segundo, CA
Survey Description
Survey Results

El Segundo Generating Station, Road Realignment Vegetation Survey

Vegetation in the vicinity of the proposed entrance-road realignment at the El Segundo Generating Station, El Segundo, California, was surveyed by two MBC biologists on 17 January 2007. The entrance road is steep and downhill. From the generating station entrance, the road parallels Vista del Mar, the coastal highway, then turns left 90°, followed by a 90° right turn. Downhill from the first curve is a cement helipad and a nearby smaller pad with an electronic control box. The proposed project would cut the downhill slope at the first turn, making the turn less sharp for large construction vehicles. The study area was the vicinity of the first turn and the downhill slope.

The survey was conducted by Carol Paquette, senior biologist, and technician Beth Young, from 0945 hr to 1030 hr. Because the slope is steep and completely covered with ice plant, the observations were made from the entrance road, with the aid of binoculars when necessary.

All of the vegetation in the proposed realignment area was ornamental, with no native species present (Map 1). The vast majority of the area was covered with sea fig, a type of ice plant commonly used for roadside planting. Within the areas of ice plant were India hawthorn, lantana, and oleander, which are bushes, and acacia and myoporum, which are small, sprawling trees (see below). In pavement cracks near the control box was hairy nightshade, a weedy species.

Carpobrotus chilensis	sea fig
Rhaphiolepis indica	India hawthorn
Acacia cultriformis	acacia
Myoporum laetum	myoporum
Lantana camara	lantana
Nerium oleander	oleander
Solanum sarrachoides	hairy nightshade

Only one animal was observed during the survey: house finch (*Carpodacus mexicanus*), which is common in urban areas.

Literature Cited

Brenzel, Kathleen N. 2001. Sunset Western Garden Book. Sunset Publishing Corporation, Menlo Park, CA.

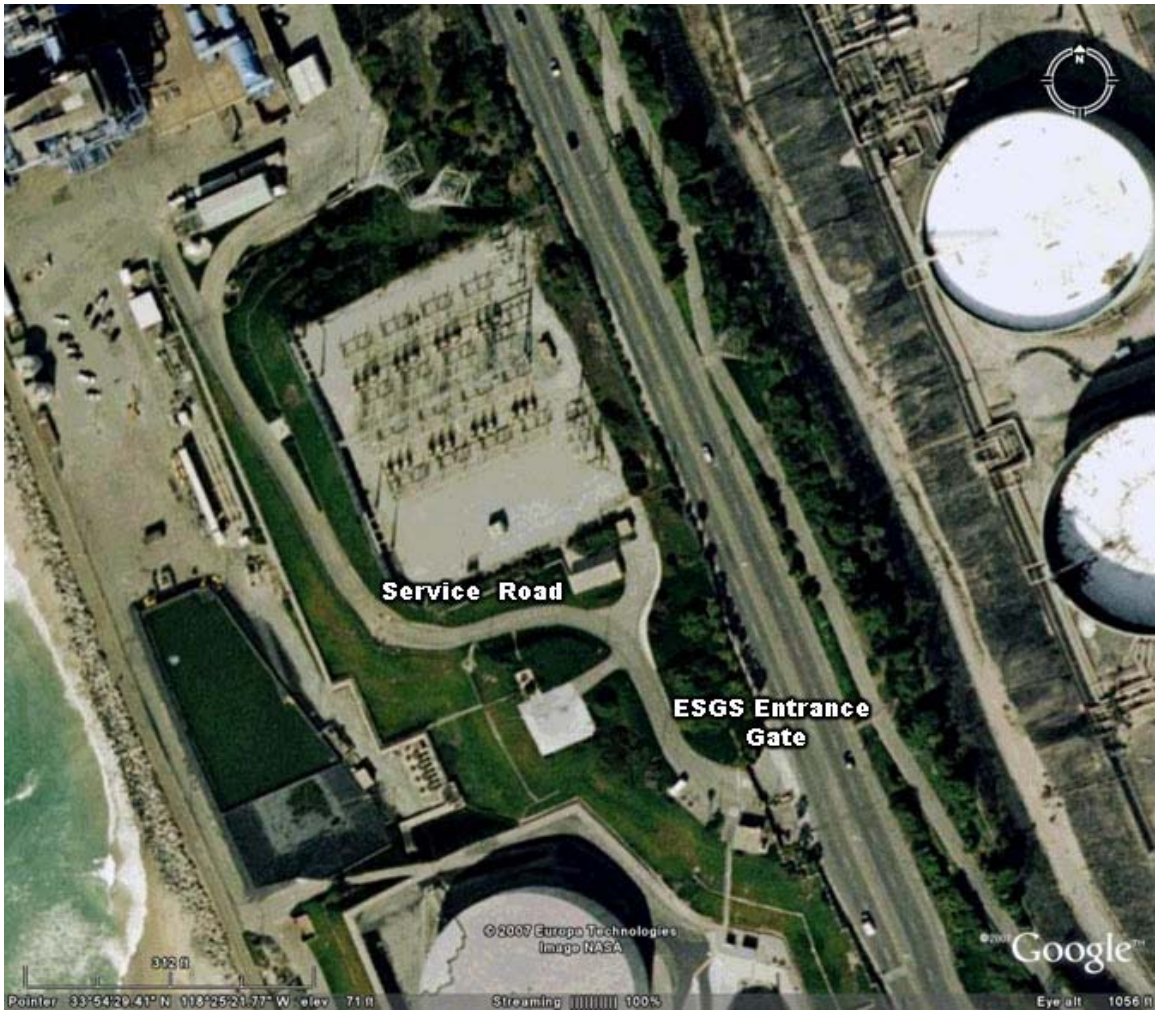
California Native Plant Society. 2001. Inventory of Rare and Endangered Plants of California (6th ed.).Rare Plant Scientific Advisory Committee, David P. Tibor, Convening Editor. California Native Plant Society. Sacramento, CA x + 388 pp.

California Native Plant Society. 2007. Inventory of Rare and Endangered Plants v7-07b 4-12-07. http://cnps.web.aplus.net/cgi-bin/inv/inventory.cgi. 17 May 2007.

California Natural Diversity Database. 2007. Wildlife and Habitat Data Analysis Branch, California Dept. of Fish and Game. Version date: 31 March 2007.

CNNDD see California Natural Diversity Database.

CNPS see California Native Plant Society



Map 1. Overview of El Segundo Generating Station service road and entrance survey area. El Segundo, CA.

777 190th Street
Gardena, CA
Survey Description
Survey Results
California Native Species Field Survey Forms

777 W. 190th Street

MBC biologists conducted a survey of vegetation at 777 W. 190th Street, Gardena, California, on 18 May 2007, from 0915 hr to 1025 hr, to determine if any natural vegetation, including any rare, threatened, or endangered species, was present. Timing of the survey was constrained by the client's project time line. Two biologist-technicians (James Nunez and Nine Johnson) took GPS coordinates at points along the perimeter of the site and at the location of any native species. Biologists Carol Paquette and David Vilas conducted the vegetation survey. All plants, native and non-native, were identified to the lowest possible taxonomic level. Voucher specimens of species not identifiable in the field were taken for later identification in the laboratory, after which they were deposited in MBC's herbarium. Small samples of native species were also collected for verification purposes. References used for identification included The Jepson Manual (Hickman1996), Flora of the Santa Ana Rriver and Environs (Clarke et al. 2007), Weeds of the West (Whitson et al. 1996), and Sunset Western Garden Book (Brenzel 2001). The phenological development (vegetative only, flowering, or fruiting) of these plants was also evaluated, and their status was determined from the California Natural Diversity Database's list of rare, sensitive threatened, endangered species (CNDDB 2007) and the California Native Plant Society's Inventory of Rare and Endangered Plants of California (CNPS 2001, CNPS 2007). The plant community was also evaluated to determine if it was a rare natural community. Digital photographs were taken of the site and of any native species found.

Since most of the site was covered with asphalt pavement, most of the vegetation occurred near the perimeter fence. The biologists walked along the entire inner side of the fence, but also investigated locations where plants occurred along cracks in the pavement, on the dirt slope adjacent to the Dominguez Channel, and on the dirt embankments on the north and northwest edges of the site (Map 1).

Forty-nine species of plants were observed at the 190th Street site. These included only three native species: Fremont cottonwood (*Populus fremontii*), coyote brush (*Baccharis pilularis*), and horseweed (*Conyza canadensis*). None of these species is rare, threatened, or endangered. The single Fremont cottonwood, about 1.5 m tall, was at the fence along the south edge of the site, just west of the entrance; it appeared to have grown as a side shoot from the cut-off stump of a larger tree. A small number of coyote brush, a large bush, were found along a fence at the top of an embankment at the west edge of the site. Neither of these two species was blooming or had fruit. Horseweed, a common weedy species, was seen a several locations at the site, primarily in cracks in the pavement. Because horseweed is an extremely common annual plant, GPS locations and photographs were not taken. Voucher specimens were taken of the following 19 species:

bull mallow (*Malva nicaeensis)*
common sowthistle (*Sonchus oleraceus*)
coyote brush (*Baccharis pilularis*)
dallis grass (*Paspalum dilatatum*)
European alkali grass (*Puccinella distans*)
Fremont cottonwood (*Populus fremontii*)
hairy nightshade (*Solanum sarrachoides*)
iceplant (*Aptenia cordifolia*)
knotweed (*Polygonum arenastrum*)
Mexican tea (*Chenopodium ambrosioides)*
myoporum (*Myoporum parvifolium* ?)
ornamental (*Xylosma congestum*)
ornamental daisy (*Coreopsis* sp)
Pigweed, lamb's quarters (*Chenopodium album* ?)
prickly sowthistle (*Sonchus asper*)
smilo grass (*Piptatherum miliaceum*)
spurge (*Chamaesyce maculata*)
storksbill, filaree (*Erodium botrys*)
white mulberry (*Morus alba*)

The most common larger species at the site were bougainvillea (*Bougainvillea* sp), Brazilian pepper (*Schinus terebinthefolius*), lemon bottlebrush (*Callistemon citrinus*), eucalyptus (*Eucalyptus* sp), tree tobacco (*Nicotiana glauca*), and castor bean (*Ricinus communis*), all of which occurred along the perimeter. Other than in the "pan-handle" area of the site, the vegetation did not appear to have been watered or cared for in any other way. None of the smaller, weedy species was dominant at the site.

Three birds were observed during the site survey: house sparrow, rock pigeon, and American crow. Only American crow is native to the United States. The rock pigeons were nesting on the billboard sign on the east corner of the site. No other animals were observed.

Literature Cited

Brenzel, Kathleen N. 2001. Sunset Western Garden Book. Sunset Publishing Corporation, Menlo Park, CA.

California Native Plant Society. 2001. Inventory of Rare and Endangered Plants of California (6th ed.).Rare Plant Scientific Advisory Committee, David P. Tibor, Convening Editor. California Native Plant Society. Sacramento, CA x + 388 pp.

California Native Plant Society. 2007. Inventory of Rare and Endangered Plants v7-07b 4-12-07. http://cnps.web.aplus.net/cgi-bin/inv/inventory.cgi. 17 May 2007.

California Natural Diversity Database. 2007. Wildlife and Habitat Data Analysis Branch, California Dept. of Fish and Game. Version date: 31 March 2007.

Clarke, Oscar F., Danielle Svehla, Grag Ballmer, and Arlee Montalvo. 2007. Flora of the Santa Ana River and Environs, with References to World Botany. Heyday Books, Berkeley, CA. 495 pp.

CNNDD see California Natural Diversity Database.

CNPS see California Native Plant Society

Hickman, James C (ed.). 1996. The Jepson Manual: Higher Plants of California. Univ. California Press, Berkeley, Los Angeles, London. 1400 pp.

Whitson, Tom D., Larry C. Burrill, Steven A. Dewey, David W. Cudney, B. E. Nelson, Richard D. Lee, and Robert Parker. 1996. Weeds of the West. 5th ed. The Western Society of Weed Science, Western United States Land Grant Universities, Cooperative Extension Services. Pioneer of Jackson Hole, Jackson, WY.

Location: 777 W. 190th Street, Gardena CA 90248-4234
Date: 18 May 2007

Site description: operational vehicle parking lot, 70% asphalt, 15% dirt, 15% landscaped (primarily west end); most of the site was covered with trucks, trailers, buses, boats and

Plants

Species name	Common name	Native +/-	Phenology
Acacia sp	acacia	-	
Agave attenuata	agave	-	
Hordeum sp	barley	-	
Cynodon dactylon	Bermuda grass	-	
Bougainvillea sp	Bougainvillea	-	
Schinus terebinthefolius	Brazilian pepper	-	
Plantago lanceolata	buckhorn plantain	-	
Malva nicaeensis	bull mallow	-	
Ceratonia siliqua	carob	-	
Ricinus communis	castor bean	-	
Sonchus oleraceus	common sowthistle	-	
Baccharis pilularis	coyote brush	+	vegetative
Paspalum dilatatum	dallis grass	-	
Hedera helix	English Ivy	-	
Eucalyptus sp	eucalyptus	-	
Puccinella distans	European alkali grass	-	
Washingtonia sp	fan palm	-	
Foeniculum vulgare	fennel	-	
Brassica nigra	field mustard	-	
Pennisetum setaceum	fountain grass	-	
Populus fremontii	Fremont cottonwood	+	vegetative
Solanum sarrachoides	hairy nightshade	-	
Conyza canadensis	horseweed	+	flowering/fruiting
Aptenia cordifolia	iceplant	-	
Lolium multiflorum	Italian ryegrass	-	
Polygonum arenastrum	knotweed	-	
Callistemon citrinus	lemon bottlebrush	-	
Chenopodium ambrosioides	Mexican tea	-	
Myoporum parvifolium ?	myoporum	-	
Avena sp	oats	-	
Nerium oleander	oleander	-	
Xylosma congestum	ornamental	-	
Coreopsis sp	ornamental daisy	-	
Schinus molle	Peruvian pepper	-	
Chenopodium album ?	pigweed, lamb's quarters	-	
Pinus sp	pine	-	
Sonchus asper	prickly sowthistle	-	
Polypogon monspeliensis	rabbitfoot grass, annual b	-	
Salsola tragus	Russian thistle	-	
Piptatherum miliaceum	smilo grass	-	
Chamaesyce maculata	spurge	-	
Erodium botrys	storksbill, filaree	-	

Plants

Species name	Common name	Native +/-	Phenology
Nicotiana glauca	tree tobacco	-	
Cyperus involucratus	umbrella sedge	-	
Morus alba	white mulberry	-	
Melilotus alba	white sweetclover	-	
Raphanus sativus	wild radish	-	
Salix sp	willow	-	
Melilotus officinalis	yellow sweetclover	-	
Animals observed			
Corvus brachyrhynchus	American crow	+	
Passer domesticus	house sparrow	-	
Columba livia	rock pigeon	-	nesting

Map 1. Overview of 777 190th Street Property. Gardena, CA.

777 190th Street, Gardena CA. 18 May 2007.

Property overview.

Vegetation along 190th Street perimeter fence.

Vegetation along landscaped hillside at back of property.

Mail to:
California Natural Diversity Database
Department of Fish and Game
1807 13th Street, Suite 202
Sacramento, CA 95814
Fax: (916) 324-0475 email: CNDDB@dfg.ca.gov

Date of Field Work (mm/dd/yyyy): 05/18/2007

For Office Use Only
Source Code _____ Quad Code _____
Elm Code _____ Occ. No. _____
EO Index No. _____ Map Index No. _____

Reset

California Native Species Field Survey Form

Send Form

Scientific Name: *Baccharis pilularis*

Common Name: Chaparral broom, coyote brush

Species Found? ☑ Yes ☐ No _____ If not, why?

Total No. Individuals 1 Subsequent Visit? ☐ yes ☑ no

Is this an existing NDDB occurrence? _____ Yes, Occ. # ☐ no ☐ unk.

Collection? If yes: _____ Number _____ Museum / Herbarium

Reporter: Carol Paquette
Address: 3000 Redhill Ave
Costa Mesa, CA 92626
E-mail Address: cpaquette@mbcnet.net
Phone: (714) 850-4830

Plant Information

Phenology: 100 % vegetative _____ % flowering _____ % fruiting

Animal Information

_____ # adults _____ # juveniles _____ # larvae _____ # egg masses _____ # unknown

☐ breeding ☐ wintering ☐ burrow site ☐ rookery ☐ nesting ☐ other

Location Description ***(please attach map AND/OR fill out your choice of coordinates, below)***

County: Los Angeles Landowner / Mgr.: First Industrial
Quad Name: Torrance Elevation: 27 ft
T____ R____ Sec ____, ____ ¼ of _____¼, Meridian: H☐ M☐ S☐ Source of Coordinates (GPS, topo. map & type): GPS
T____ R____ Sec ____, ____ ¼ of _____¼, Meridian: H☐ M☐ S☐ GPS Make & Model Garmin GPS Map 7GCSX
DATUM: NAD27 ☐ NAD83 ☐ WGS84 ☐ Horizontal Accuracy <5 meters, typical meters/feet
Coordinate System: UTM Zone 10 ☐ UTM Zone 11 ☐ ***OR*** Geographic (Latitude & Longitude) ☑
Coordinates: Longitude 118°17.310' Latitude 33°51.723'

Habitat Description *(plant communities, dominants, associates, substrates/soils, aspects/slope):*

Vehicle storage parking lot, 70% asphalt, 15% dirt, 15% landscaped (at west end); flat, except embankment along north edge; vegetation is sparse primarily weedy species and common landscaping plants.

Other rare taxa seen at THIS site on THIS date:
(separate form preferred)

Site Information Overall site/occurrence quality/viability (site + population): ☐ Excellent ☐ Good ☐ Fair ☑ Poor

Immediate AND surrounding land use: Industrial/Commerical

Visible disturbances: asphalt pavement/motor oil

Threats: future development

Comments:

Determination: *(check one or more, and fill in blanks)*

☐ Keyed (cite reference): _____
☐ Compared with specimen housed at: _____
☑ Compared with photo / drawing in: Jepson Manual
☐ By another person (name): _____
☐ Other: _____

Photographs: *(check one or more)*

	Slide	Print	Digital
Plant / animal	☐	☐	☑
Habitat	☐	☐	☑
Diagnostic feature	☐	☐	☐

May we obtain duplicates at our expense? yes ☑ no ☐

777 190th Street, Gardena CA. 18 May 2007.

Coyote brush (*Baccharis pilularis*)

Mail to:
California Natural Diversity Database
Department of Fish and Game
1807 13th Street, Suite 202
Sacramento, CA 95814
Fax: (916) 324-0475 email: CNDDB@dfg.ca.gov

Date of Field Work (mm/dd/yyyy): 05/18/2007

For Office Use Only
Source Code _____ Quad Code _____
Elm Code _____ Occ. No. _____
EO Index No. _____ Map Index No. _____

Reset

California Native Species Field Survey Form

Send Form

Scientific Name: *Conyza canadensis*

Common Name: horseweed

Species Found? ☑ Yes ☐ No _____ If not, why?

Total No. Individuals 100 Subsequent Visit? ☐ yes ☑ no

Is this an existing NDDB occurrence? _____ Yes, Occ. # ☐ no ☐ unk.

Collection? If yes: _____ Number _____ Museum / Herbarium

Reporter: Carol Paquette
Address: 3000 Redhill Ave
Costa Mesa, CA 92626
E-mail Address: cpaquette@mbcnet.net
Phone: (714) 850-4830

Plant Information

Phenology: 50 % vegetative 50 % flowering 50 % fruiting

Animal Information

_____ # adults _____ # juveniles _____ # larvae _____ # egg masses _____ # unknown

☐ breeding ☐ wintering ☐ burrow site ☐ rookery ☐ nesting ☐ other

Location Description ***(please attach map AND/OR fill out your choice of coordinates, below)***

County: Los Angeles Landowner / Mgr.: First Industrial
Quad Name: Torrance Elevation: 27 ft
T____ R____ Sec ____, ____ ¼ of _____¼, Meridian: H☐ M☐ S☐ Source of Coordinates (GPS, topo. map & type): GPS
T____ R____ Sec ____, ____ ¼ of _____¼, Meridian: H☐ M☐ S☐ GPS Make & Model Garmin GPS Map 7GCSX
DATUM: NAD27 ☐ NAD83 ☐ WGS84 ☐ Horizontal Accuracy <5 meters, typical meters/feet
Coordinate System: UTM Zone 10 ☐ UTM Zone 11 ☐ ***OR*** Geographic (Latitude & Longitude) ☑
Coordinates: Longitude 118°17.152' Latitude 33°51.670'

Habitat Description *(plant communities, dominants, associates, substrates/soils, aspects/slope):*

Vehicle storage parking lot, 70% asphalt, 15% dirt, 15% landscaped (at west end); flat, except embankment along north edge; vegetation is sparse primarily weedy species and common landscaping plants.

Other rare taxa seen at THIS site on THIS date:
(separate form preferred)

Site Information Overall site/occurrence quality/viability (site + population): ☐ Excellent ☐ Good ☐ Fair ☑ Poor

Immediate AND surrounding land use: Industrial/Commerical

Visible disturbances: asphalt pavement/motor oil

Threats: future development

Comments:

Determination: *(check one or more, and fill in blanks)*

- ☑ Keyed (cite reference): Jepson Manual
- ☐ Compared with specimen housed at: _____
- ☐ Compared with photo / drawing in: _____
- ☐ By another person (name): _____
- ☐ Other: _____

Photographs: *(check one or more)*

	Slide	Print	Digital
Plant / animal	☐	☐	☐
Habitat	☐	☐	☑
Diagnostic feature	☐	☐	☐

May we obtain duplicates at our expense? yes ☑ no ☐

Mail to:
California Natural Diversity Database
Department of Fish and Game
1807 13th Street, Suite 202
Sacramento, CA 95814
Fax: (916) 324-0475 email: CNDDB@dfg.ca.gov

Date of Field Work (mm/dd/yyyy): 05/18/2007

For Office Use Only

Source Code _____ Quad Code _____

Elm Code _____ Occ. No. _____

EO Index No. _____ Map Index No. _____

Reset

California Native Species Field Survey Form

Send Form

Scientific Name: *Corvus brachyrhynchus*

Common Name: American crow

Species Found? ☑ Yes ☐ No _____ If not, why?

Total No. Individuals 1 Subsequent Visit? ☐ yes ☑ no

Is this an existing NDDB occurrence? _____ Yes, Occ. # ☐ no ☐ unk.

Collection? If yes: _____ Number _____ Museum / Herbarium

Reporter: Carol Paquette

Address: 3000 Redhill Ave
Costa Mesa, CA 92626

E-mail Address: cpaquette@mbcnet.net

Phone: (714) 850-4830

Plant Information

Phenology: _____% vegetative _____% flowering _____% fruiting

Animal Information

1 # adults _____ # juveniles _____ # larvae _____ # egg masses _____ # unknown

☐ breeding ☐ wintering ☐ burrow site ☐ rookery ☐ nesting ☐ other

Location Description *(please attach map AND/OR fill out your choice of coordinates, below)*

County: Los Angeles Landowner / Mgr.: First Industrial

Quad Name: Torrance Elevation: 27 ft

T____ R____ Sec ____, ____ ¼ of _____¼, Meridian: H☐ M☐ S☐ Source of Coordinates (GPS, topo. map & type): GPS

T____ R____ Sec ____, ____ ¼ of _____¼, Meridian: H☐ M☐ S☐ GPS Make & Model Garmin GPS Map 7GCSX

DATUM: NAD27 ☐ NAD83 ☐ WGS84 ☐ Horizontal Accuracy <5 meters, typical meters/feet

Coordinate System: UTM Zone 10 ☐ UTM Zone 11 ☐ *OR* Geographic (Latitude & Longitude) ☑

Coordinates: Longitude 118°17.209' Latitude 33°51.763'

Habitat Description *(plant communities, dominants, associates, substrates/soils, aspects/slope):*

Vehicle storage parking lot, 70% asphalt, 15% dirt, 15% landscaped (at west end); flat, except embankment along north edge; vegetation is sparse primarily weedy species and common landscaping plants.

Other rare taxa seen at THIS site on THIS date:
(separate form preferred)

Site Information

Overall site/occurrence quality/viability (site + population): ☐ Excellent ☐ Good ☐ Fair ☑ Poor

Immediate AND surrounding land use: Industrial/Commerical

Visible disturbances: asphalt pavement/motor oil

Threats: future development

Comments:

Determination: *(check one or more, and fill in blanks)*

- ☐ Keyed (cite reference): _____
- ☐ Compared with specimen housed at: _____
- ☐ Compared with photo / drawing in: _____
- ☐ By another person (name): _____
- ☐ Other: _____

Photographs: *(check one or more)*

	Slide	Print	Digital
Plant / animal	☐	☐	☐
Habitat	☐	☐	☐
Diagnostic feature	☐	☐	☐

May we obtain duplicates at our expense? yes ☐ no ☐

Mail to:
California Natural Diversity Database
Department of Fish and Game
1807 13th Street, Suite 202
Sacramento, CA 95814
Fax: (916) 324-0475 email: CNDDB@dfg.ca.gov

Date of Field Work (mm/dd/yyyy): 05/18/2007

For Office Use Only
Source Code _____ Quad Code _____
Elm Code _____ Occ. No. _____
EO Index No. _____ Map Index No. _____

Reset

California Native Species Field Survey Form

Send Form

Scientific Name: *Populus fremontii*

Common Name: Fremont cottonwood

Species Found? ☑ Yes ☐ No _____ If not, why?

Total No. Individuals 1 Subsequent Visit? ☐ yes ☑ no

Is this an existing NDDB occurrence? _____ Yes, Occ. # ☐ no ☐ unk.

Collection? If yes: _____ Number MBC Applied Env. Sciences Museum / Herbarium

Reporter: Carol Paquette
Address: 3000 Redhill Ave
Costa Mesa, CA 92626
E-mail Address: cpaquette@mbcnet.net
Phone: (714) 850-4830

Plant Information

Phenology: 100 % vegetative _____ % flowering _____ % fruiting

Animal Information

_____ # adults _____ # juveniles _____ # larvae _____ # egg masses _____ # unknown

☐ breeding ☐ wintering ☐ burrow site ☐ rookery ☐ nesting ☐ other

Location Description ***(please attach map AND/OR fill out your choice of coordinates, below)***

County: Los Angeles Landowner / Mgr.: First Industrial
Quad Name: Torrance Elevation: 27 ft
T____ R____ Sec ____, ____ ¼ of _____¼, Meridian: H☐ M☐ S☐ Source of Coordinates (GPS, topo. map & type): GPS
T____ R____ Sec ____, ____ ¼ of _____¼, Meridian: H☐ M☐ S☐ GPS Make & Model Garmin GPS Map 7GCSX
DATUM: NAD27 ☐ NAD83 ☐ WGS84 ☐ Horizontal Accuracy <5 meters, typical meters/feet
Coordinate System: UTM Zone 10 ☐ UTM Zone 11 ☐ ***OR*** Geographic (Latitude & Longitude) ☑
Coordinates: Longitude 118°17.287' Latitude 33°51.622'

Habitat Description *(plant communities, dominants, associates, substrates/soils, aspects/slope):*

Vehicle storage parking lot, 70% asphalt, 15% dirt, 15% landscaped (at west end); flat, except embankment along north edge; vegetation is sparse primarily weedy species and common landscaping plants.

Other rare taxa seen at THIS site on THIS date:
(separate form preferred)

Site Information Overall site/occurrence quality/viability (site + population): ☐ Excellent ☐ Good ☐ Fair ☑ Poor

Immediate AND surrounding land use: Industrial/Commerical

Visible disturbances: asphalt pavement/motor oil

Threats: future development

Comments:

Determination: *(check one or more, and fill in blanks)*

☑ Keyed (cite reference): Jepson Manual
☐ Compared with specimen housed at: _____
☐ Compared with photo / drawing in: _____
☐ By another person (name): _____
☐ Other: _____

Photographs: *(check one or more)*

	Slide	Print	Digital
Plant / animal	☐	☐	☑
Habitat	☐	☐	☑
Diagnostic feature	☐	☐	☐

May we obtain duplicates at our expense? yes ☑ no ☐

777 190th Street, Gardena CA. 18 May 2007.

Fremont cottonwood (*Populus fremontii*)